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In the Claims:

(Currently amended) A method of fabricating a semiconductor 1. implantation to provide a device by employing ion 2 SiC semiconductor substrate at a surface thereof with a region having dopant introduced therein, comprising the steps of: providing said semiconductor substrate at least at a first region of a surface thereof with a mask layer including a polyimide resin film; and implanting dopant ions to an implantation depth into said semiconductor 8 substrate at a second region of said surface of said semiconductor substrate free of said polyimide resin film; 10 wherein said polyimide resin film has a thickness of at 11 least twice said implantation depth. 12

Claims 2 to 5 (Canceled).

- 6. (Previously presented) The method of claim 1, wherein said semiconductor substrate is heated to at least 300°C and said dopant ions are implanted.
- 7. (Previously presented) The method of claim 1, wherein said semiconductor substrate is heated to at least 500°C and said dopant ions are implanted.
- 1 8. (Previously presented) The method of claim 1, wherein said
 2 polyimide resin film is formed of photosensitive polyimide
 3 resin.

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Claim 9 (Canceled).

- 1 10. (Previously presented) The method of claim 1, wherein a
 2 thin metal film is further interposed between said
 3 polyimide resin film and said semiconductor substrate.
- 1 11. (Previously presented) The method of claim 1, wherein a thin film formed of SiO₂ is further interposed between said polyimide resin film and said semiconductor substrate.

Claims 12 to 24 (Canceled).

- 1 25. (Previously presented) The method of claim 1, wherein said
 2 mask layer is deposited on said semiconductor substrate at
 3 said first region to be undoped with said dopant ions.
- 26. (Currently amended) The method of claim 1, wherein said dopant ions are implanted into [[a]] said second region unmasked which is not masked by said mask layer.
- 27. (Currently amended) A method of preparing a doped semiconductor substrate, comprising the steps:
 - a) providing a semiconductor substrate comprising SiC;
- b) providing a mask layer including a polyimide resin

 film that consists of a photosensitive polyimide resin

 on a first region of a surface of said substrate, by

 applying said polyimide resin film on said first

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8		region and a second region of said surface, then
9		exposing said polyimide resin film to light at said
10		first region, and then removing said polyimide resing
11		film at said second region, wherein said step b) does
12		not involve photolithography employing a photoresist;
13	c)	heating said substrate to at least 300°C; and
14	d)	while said substrate is at least 300°C, implanting, by
15		ion implantation, dopant ions into said substrate
16		through [[a]] said second region of said surface to
17		form in said substrate a doped region that is doped
18		with said dopant ions:

deposition and does not involve dry etching.

wherein said method does not involve chemical vapor

Claim 28 (Canceled).

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- 1 29. (Previously presented) The method according to claim 27,
 2 further comprising, after said step d), a step of removing
 3 said polyimide resin film by wet etching using hydrofluoric
 4 acid.
- 1 30. (Currently amended) The method according to claim 27,
 2 A method of preparing a doped semiconductor substrate,
 3 comprising the steps:
- a) providing a semiconductor substrate comprising SiC;
- b) providing a mask layer including a polyimide resin

 film on a first region of a surface of said substrate:
- 7 <u>c) heating said substrate to at least 300°C; and</u>

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8	<u>d)</u>	while said substrate is at least 300°C, implanting, by
9		ion implantation, dopant ions into said substrate
10	•	through a second region of said surface to form in
11		said substrate a doped region that is doped with said
12		dopant ions;

wherein said polyimide resin film has a thickness of at 13 least twice a depth of said doped region. 14

- 31. (Currently amended) The method according to claim 27, A method of preparing a doped semiconductor substrate, 2 comprising the steps:
- <u>a)</u> providing a semiconductor substrate comprising SiC;
- providing a mask layer including a polyimide resin b) film on a first region of a surface of said substrate;
- c) heating said substrate to at least 300°C; and
- d) while said substrate is at least 300°C, implanting, by ion implantation, dopant ions into said substrate through a second region of said surface to form in 10 said substrate a doped region that is doped with said dopant ions;

wherein said step b) further comprises forming said mask 13 layer to include a metal film interposed between said 14 polyimide resin film and said substrate. 15

- 32. (Currently amended) The method according to claim 27, A method of preparing a doped semiconductor substrate, comprising the steps:
- providing a semiconductor substrate comprising SiC; a)

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5	<u>p)</u>	providing a mask layer including a polyimide resin
6		film on a first region of a surface of said substrate;
7	<u>c)</u>	heating said substrate to at least 300°C; and
8	<u>d)</u>	while said substrate is at least 300°C, implanting, by
9		ion implantation, dopant ions into said substrate
0		through a second region of said surface to form in
1		said substrate a doped region that is doped with said
2		dopant ions:
3	wher	ein said step b) further comprises forming said mask
4	laye	r to include a $ exttt{SiO}_2$ film interposed between said
15	poly	imide resin film and said substrate.

[RESPONSE CONTINUES ON NEXT PAGE]